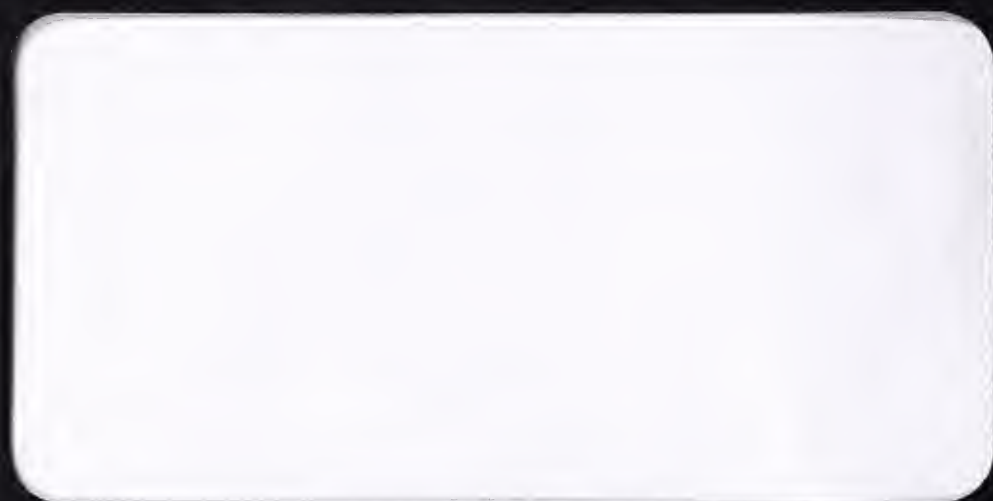


Information Services Industry Directions

Executive Presentation

*YWQAD
1990*

INPUT



**Information Services
Industry Directions**

Executive Presentation

JIPDEC

June 13, 1990

Information Services YWQAD
Industry Directions 1990
Executive presentation copy 1

AUTHOR

TITLE

DATE
LOANED

BORROWER'S NAME

JIPDEC Presentation Outline

- Introduction
- Information systems—trends and issues
- Information **services**— trends and issues
- Information services markets
- Major trends for the decade
- Conclusions

INPUT
YWQAD-NL-Y1

Notes

INPUT

Market Research and Consultancy

Information Services Industry

15 Years in Business

100 Employees

INPUT

Notes

INPUT

California, New York, Washington D.C.,
London, Paris, Tokyo

Primary Research Emphasis

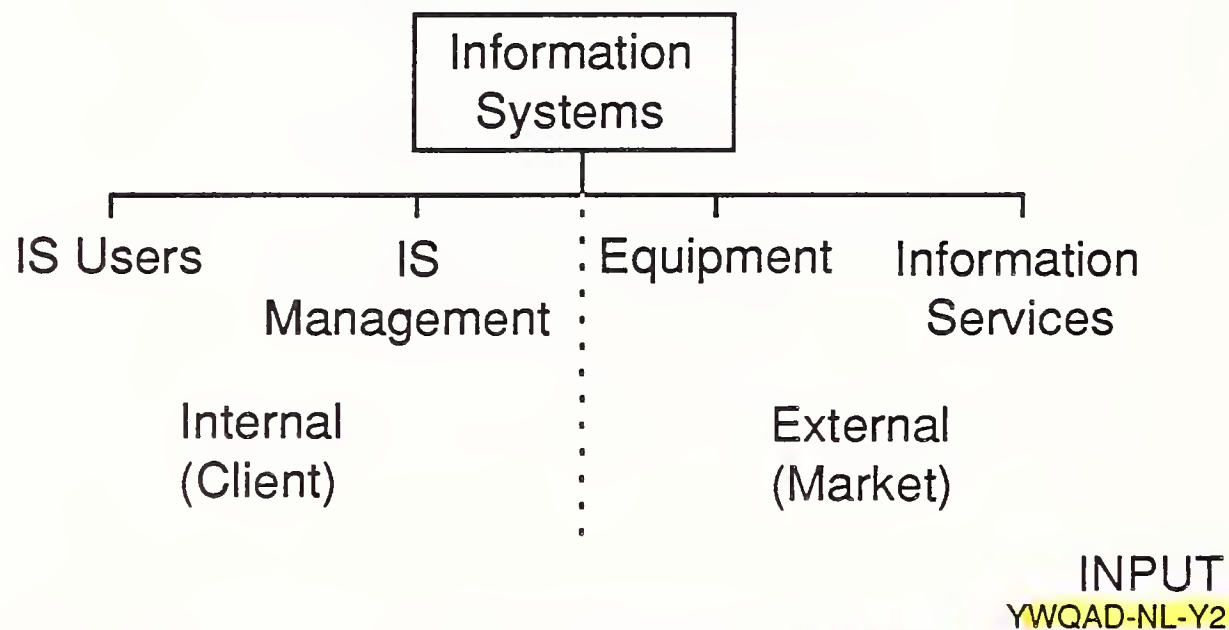
Senior Executives Experienced in
Information Services

Forecast from Comprehensive Data Base

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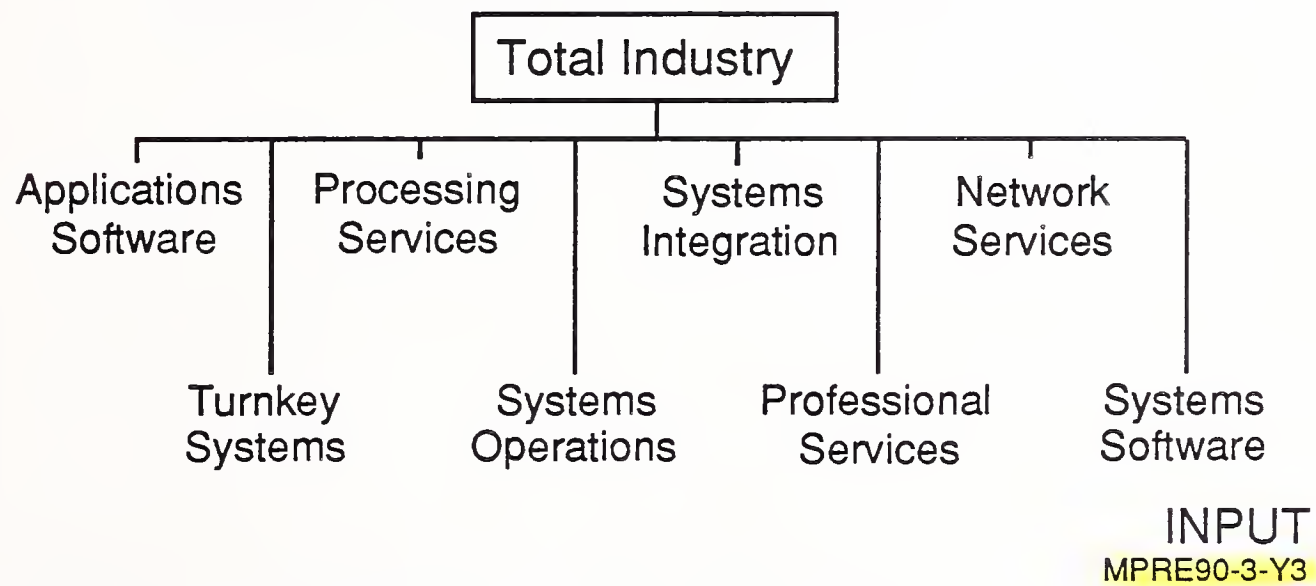
Notes

Elements of Information Systems



Notes

Information Services Industry Structure



Notes



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https://archive.org/details/informationerviunse_5

Information Systems

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Notes

Information Systems Driving Forces

1. Bottom line return
2. Rapid response and deployment (Pace)
3. Expanding wealth of technology
4. International competition (Globalization)
5. Unstable organizational environments (Pace)
6. Integration

INPUT

Notes

Ranking of Impact of New Technologies

1. Image processing
2. Voice recognition
3. Natural language processing
4. Self-teaching expert systems

INPUT

Notes

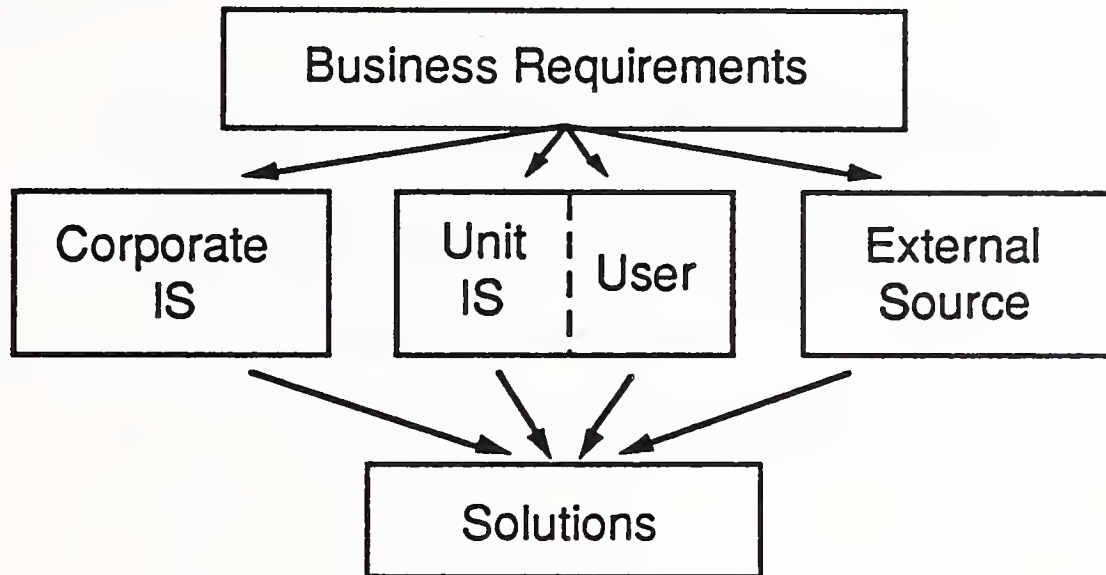
Ranking of Key Technology Trends

1. Integrated data bases (relational)
2. Platform independence/systems connectivity
3. CASE technologies
4. Expert systems
5. On-line transaction processing capabilities

INPUT

Notes

Development Environment



INPUT

Notes

Information Systems—Major Issues

- Rising management expectations
- Demands for increasingly complex solutions
- Managing the technology investment
- Integration of data/technology/applications
- Delivery of "mission-critical" systems

INPUT

Notes

Information Services Industry Trends

INPUT

Notes

Key Trends for the 1990s

- Products & services markets blurring
- Changing market structure
- ~~Internationalization~~ *Globalization*
- Standards
- Vendor consolidation

INPUT

Notes

Globalization

A Dominant Trend in the '90s

- Collapsing market barriers
 - Europe (East and West)
 - North America
- Growing market interest/participation
 - Pacific Rim
- Globalization of buyer requirements

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MPRE90-38-Y13

Notes

Counter-Trends to Globalization

- Time required to build relationships
- Longer lead time to profits
- Language barriers
 - Documentation
- Cultural "non-fits"
- Preference for local products and services
- Focus on narrow, niche markets
- National restrictions

INPUT

Notes

Standards

- *Driven by:*

- Globalization
 - Buyer's integration requirements
 - Large providers/coalitions
-

- *Focused on:*

- Technical interface
- Applications interface
- Human interface HUMATICS™

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MPRE90-42ab-Y14

Notes

Standards Are Evolving

Long-Range Implications

- More comprehensive global networks of diverse computers
- Graphics-based user interface
- Fewer hardware manufacturers

INPUT

Notes

Standards Are Evolving

Long-Range Implications

- Diminishing importance of proprietary operating systems
- Systems integration a key to success
- Ease of program customization

INPUT

Notes

Standards Inhibitors

- Application interface confusion
 - RDBMS vendors
 - Computer vendors
- Enterprise architecture competition
 - SAA (IBM)
 - NAS (DEC)
 - New Wave (HP)
 - Other independents

INPUT

Notes

Market Forecasts 1989-1994

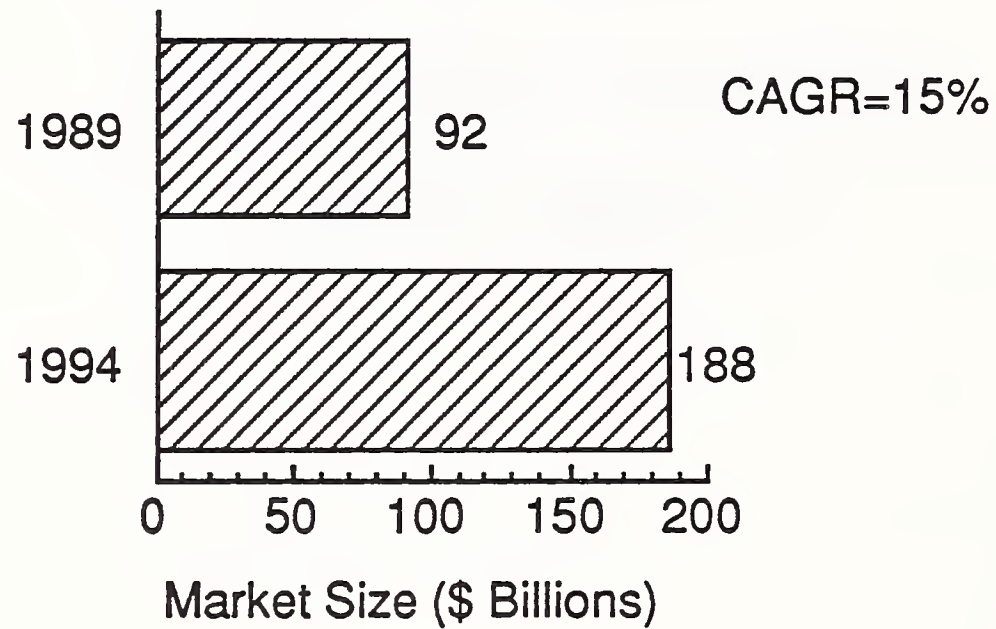
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Notes

SCON-DRW2-6

MPRE90-53

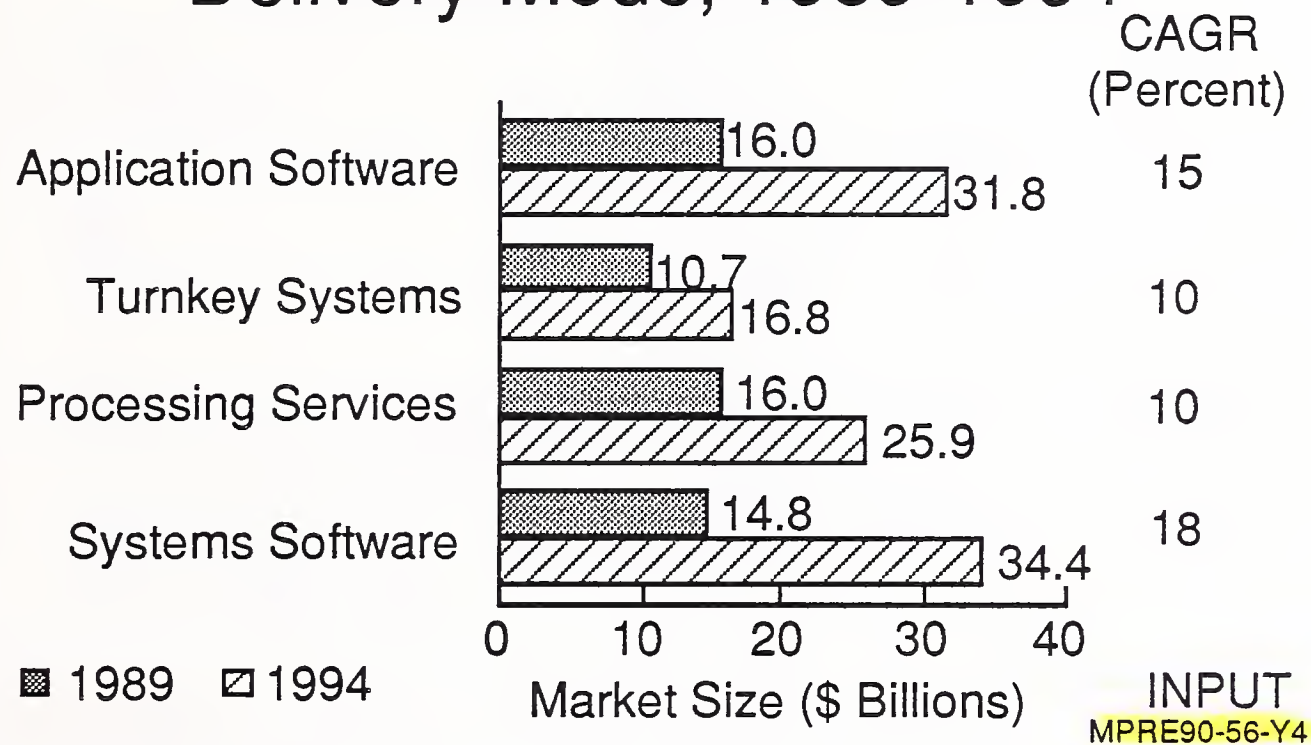
U.S. Information Services Market 1989-1994



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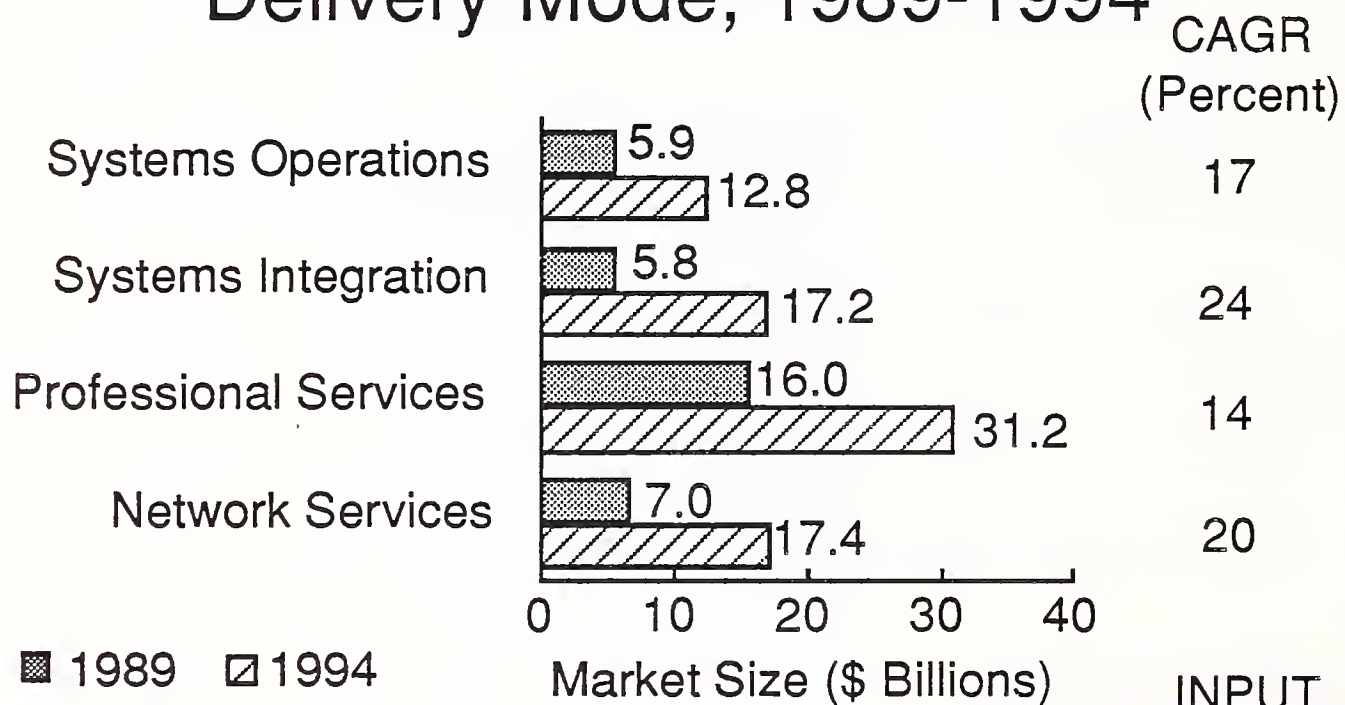
Notes

U.S. Information Services Market by Delivery Mode, 1989-1994



Notes

U.S. Information Services Market by Delivery Mode, 1989-1994



Notes

Selected Leading Information Services Vendors

Vendor	1988 U.S. Revenues (\$ Billions)	Market Share (Percent)
IBM	4.9	6
ADP	1.5	2
EDS	1.4	2
Computer Sciences	1.2	1
Digital Equipment	1.2	1

INPUT

Notes

Selected Leading Information Services Vendors

Vendor	1988 U.S. Revenues (\$ Billions)	Market Share (Percent)
Unisys	0.9	1
Control Data	0.8	1
McDonnell Douglas	0.8	1
Andersen Consulting	0.7	1
Equifax	0.7	1

INPUT

Notes

Selected Leading Information Services Vendors

Vendor	1988 U.S. Revenues (\$ Billions)	Market Share (Percent)
Computer Associates	0.6	1
Dow Jones News/Retrieval	0.6	1
TRW	0.5	1

INPUT

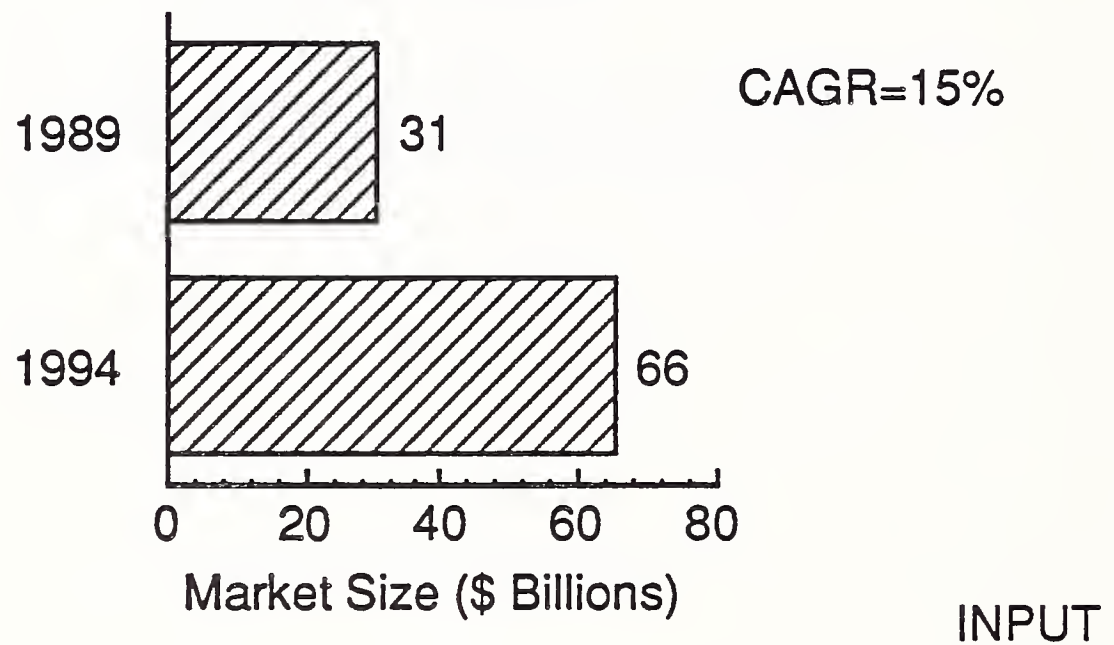
Notes

Software Products

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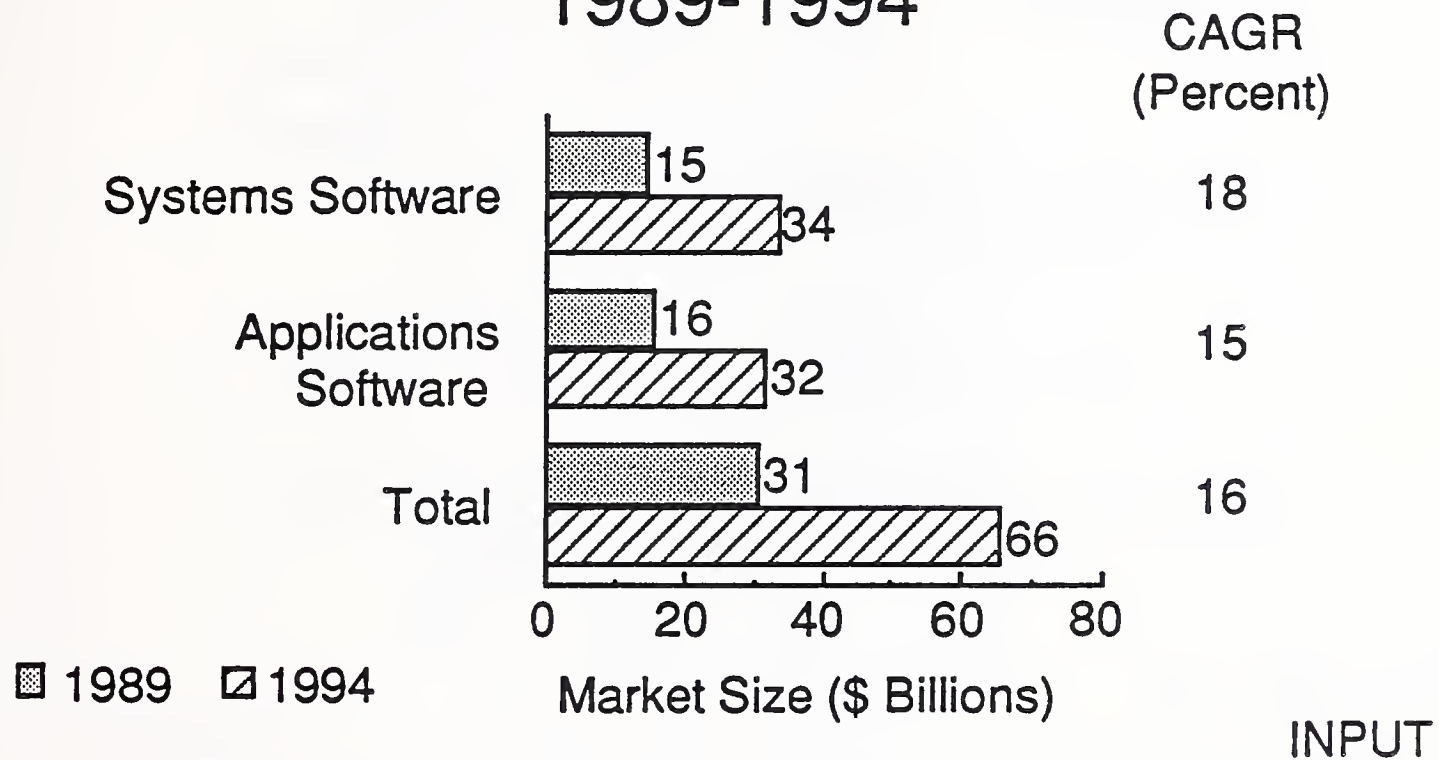
Notes

U.S. Software Products Market 1989-1994



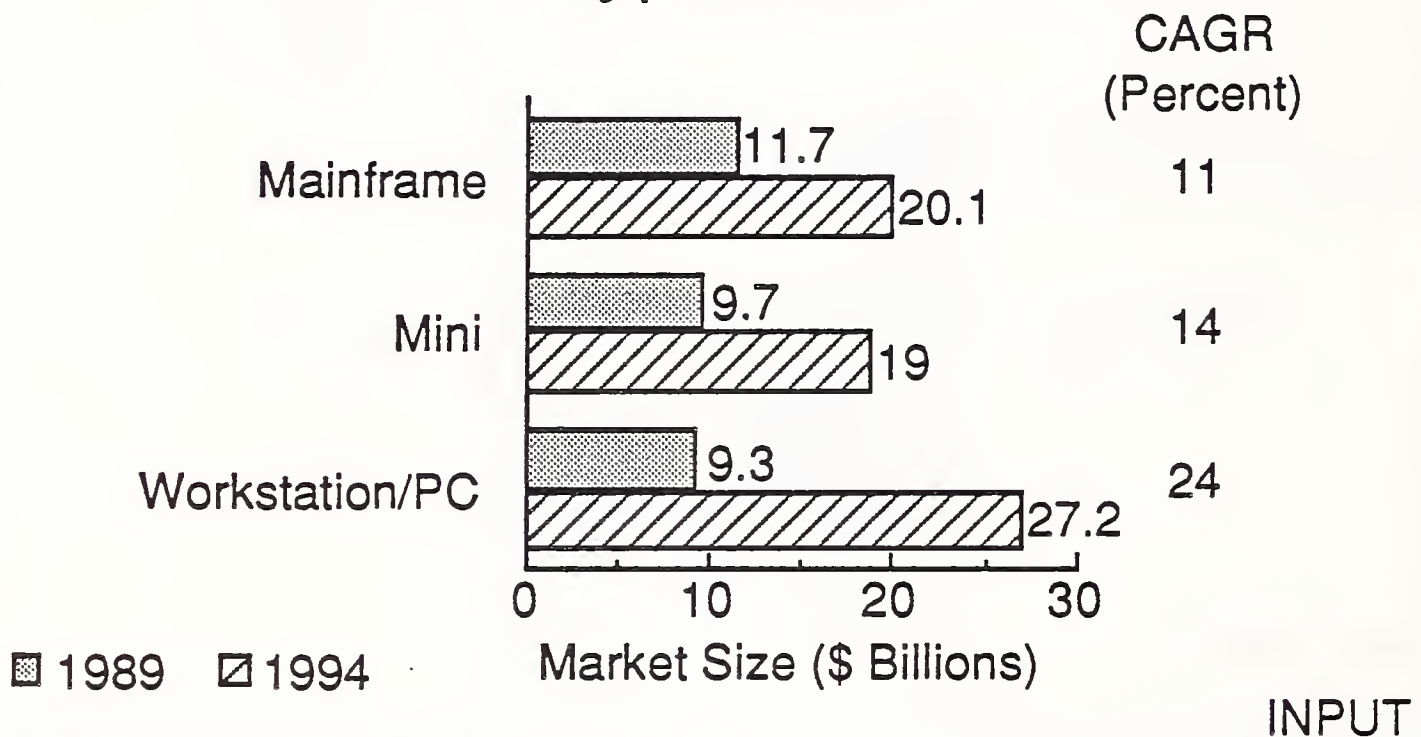
Notes

U.S. Software Products Market 1989-1994



Notes

U.S. Software Products Market by Platform Type, 1989-1994



Notes

Software Products Market Trends

- Enterprise-wide data access
- Distributed processing
 - Client/server/cooperative processing
 - Peer-to-peer processing
- Object-oriented technologies
- Focus on interoperability

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Notes

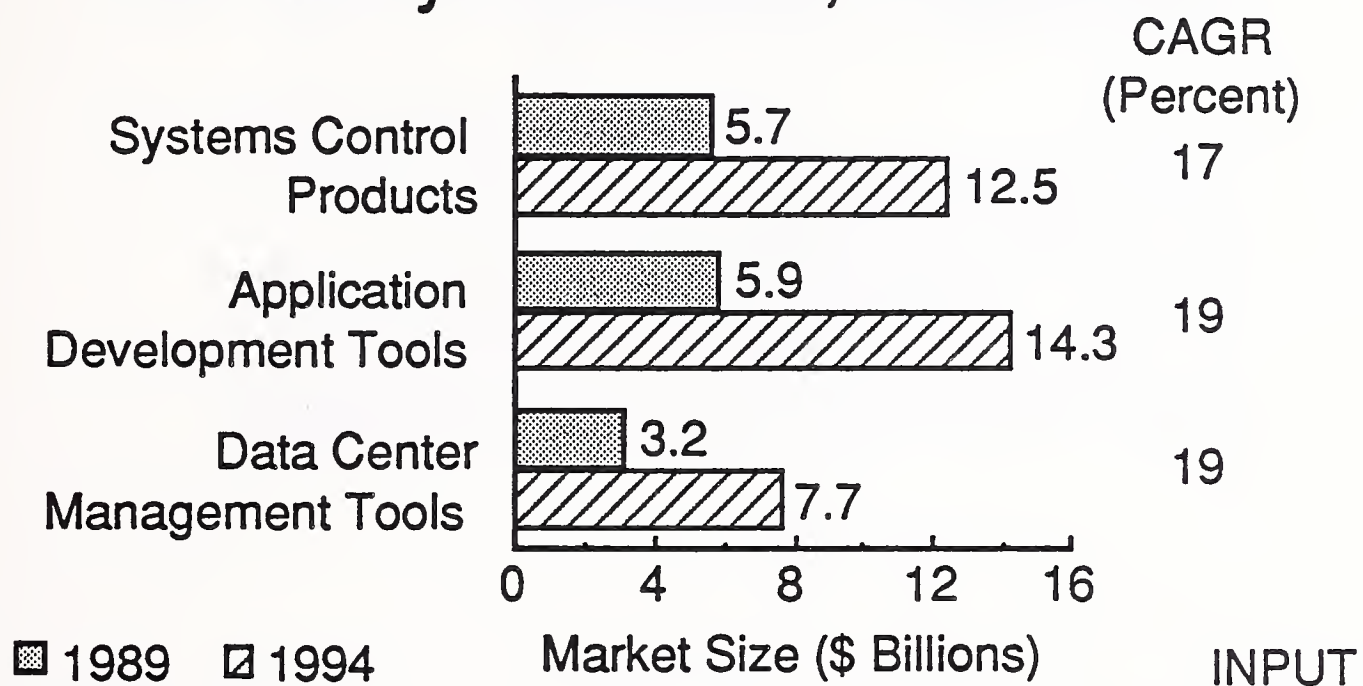
User Needs

- Application sophistication
- Heterogeneous hardware/environment
- Dynamic connectivity/cooperative processing
- Resource sharing/groupware
- Improved user productivity
- Workstation support
- Image processing
- Improved development process

INPUT

Notes

U.S. Systems Software Products Market by Submode, 1989-1994



Notes

Systems Software Products Market—Inhibiting Forces

- Computer saturation
- Competition and price pressures
- Declining software price per copy
- Hardware/firmware/software vendor strategies

INPUT

Notes

CASE—User Perspective

- Real productivity problem
- Backlog problem continues
- Lingering resistance to disciplined development processes

INPUT

Notes

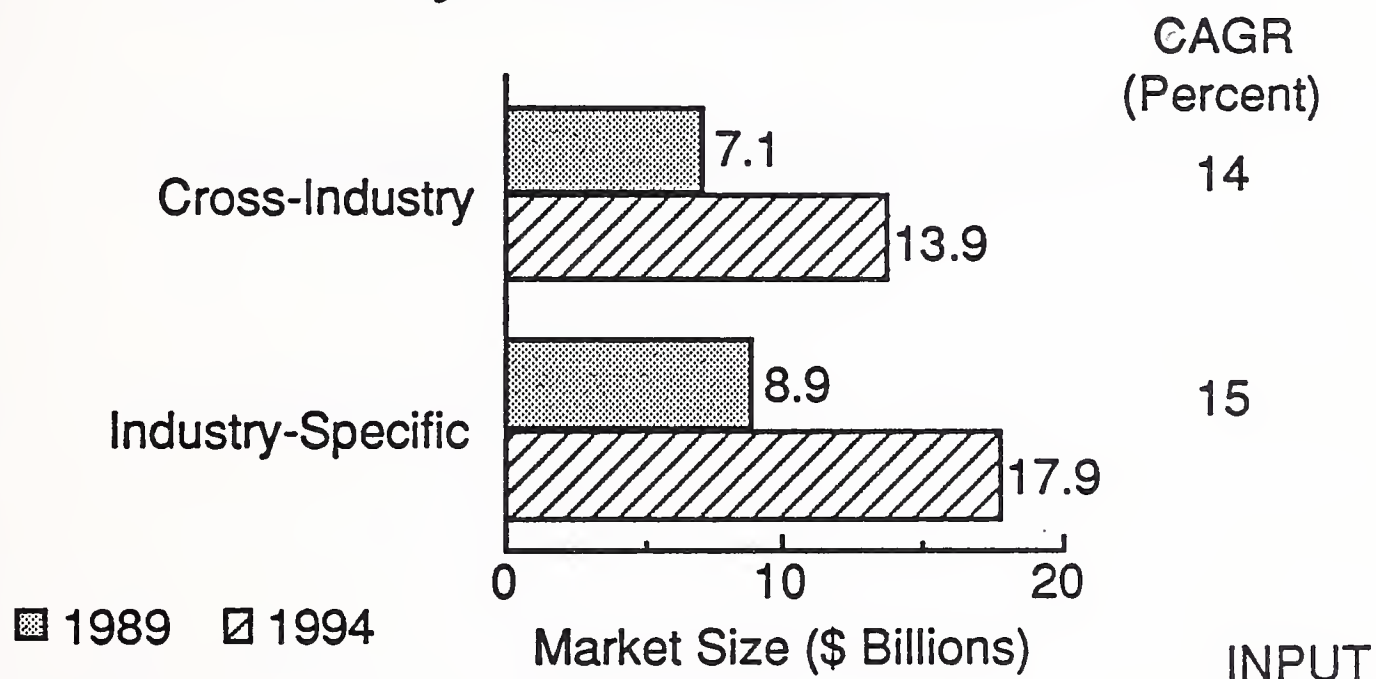
CASE—User Perspective

- Two problems
 - Existing applications—2/3rds
 - New development—1/3rd
- Slow to become systems engineers
- Caution about CASE

INPUT

Notes

U.S. Applications Software Product Market by Submode, 1989-1994



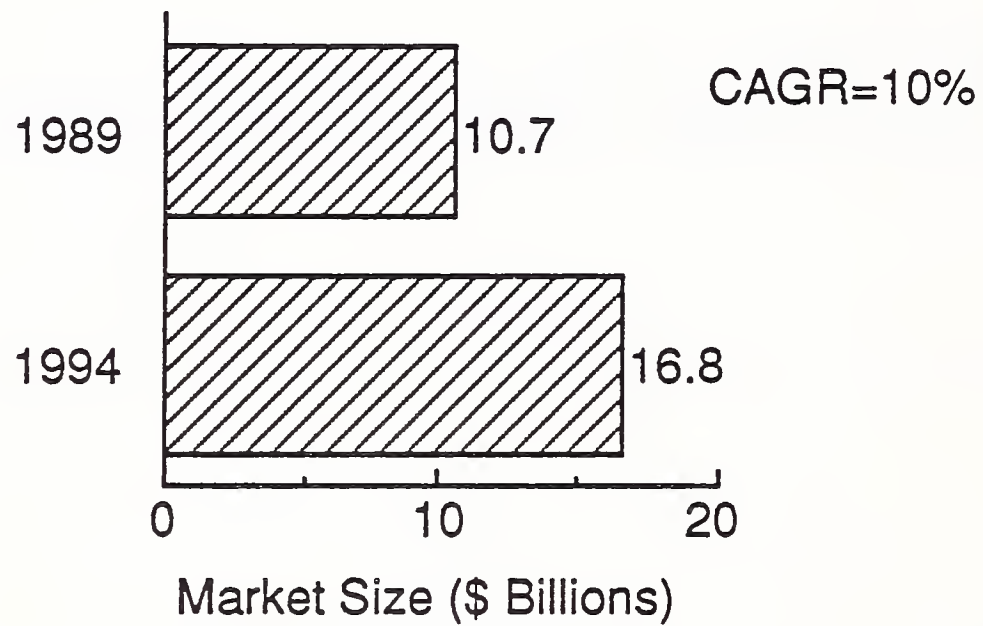
Notes

Turnkey Systems/VARs

INPUT

Notes

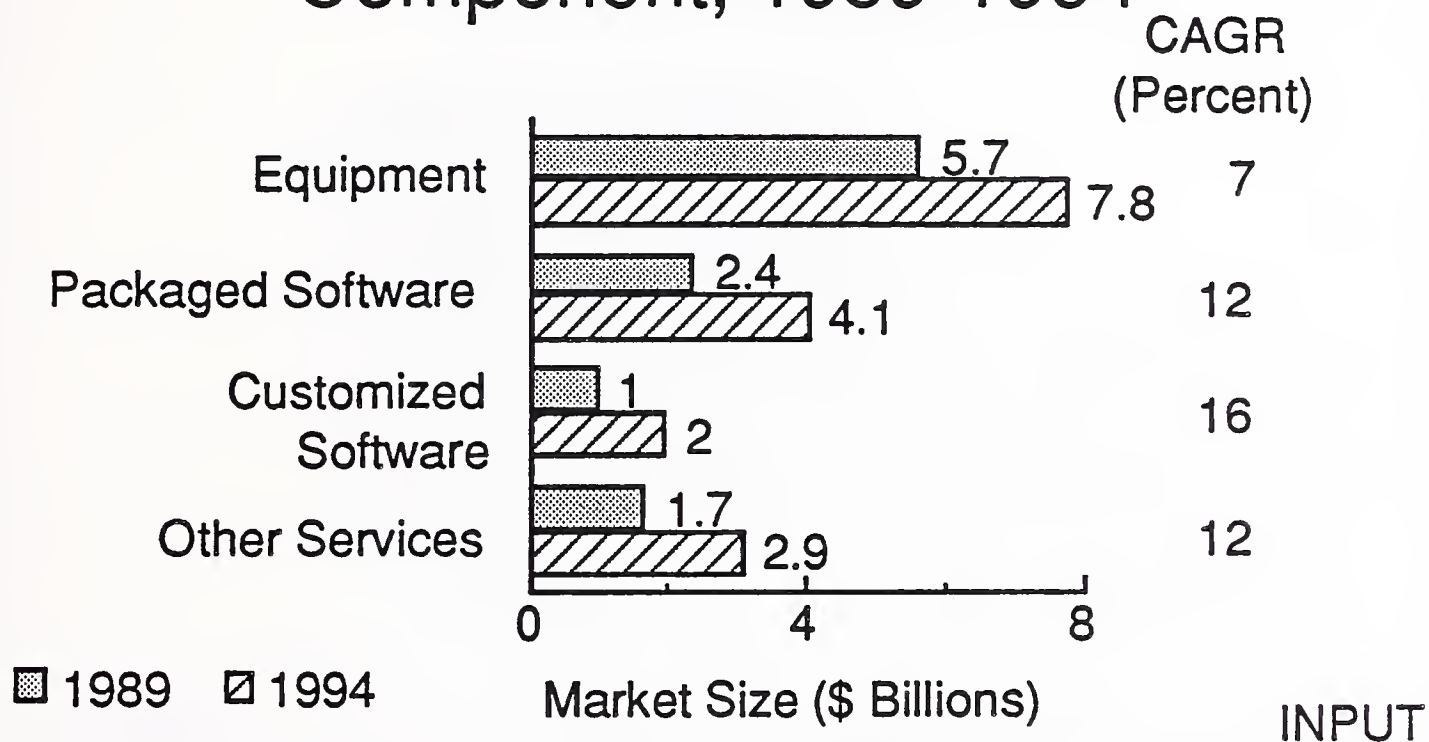
U.S. Turnkey Systems Market 1989-1994



INPUT

Notes

U.S. Turnkey Systems Market by Component, 1989-1994



Notes

Platform Types: Turnkey Systems Equipment

	Systems Shipped (Percent)	
	1988	1994
Mainframe	10	5
Minicomputer	55	40
Workstation/PC	35	55

INPUT

Notes

Turnkey Systems Market Driving Forces

- Distributed solutions
- Customization
- Growth of support services
- Software applications required
- Account control at low end of spectrum

INPUT

Notes

Turnkey Systems Market

Inhibiting Forces

- Shift to software vendor role
- Hardware vendors writing software
- Cash flow/prime contractor expenses and resources

INPUT

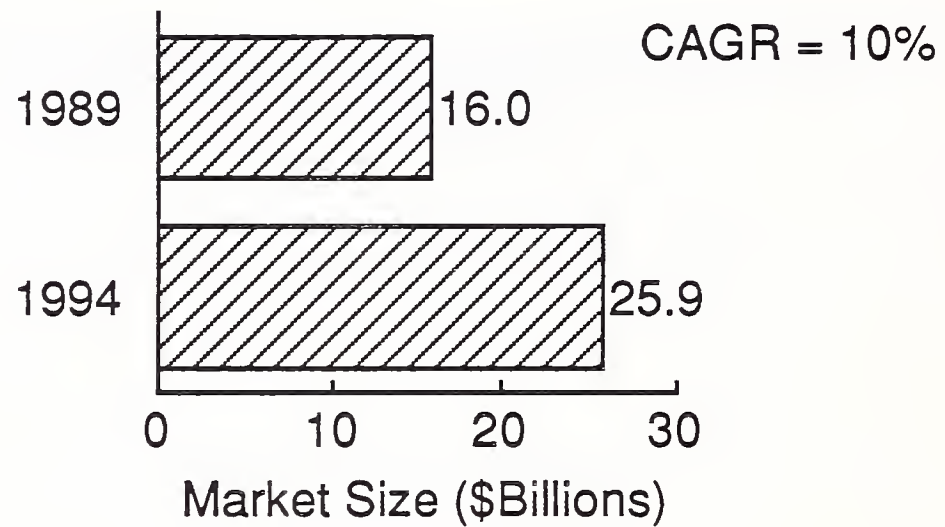
Notes

Processing Services

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MPRE90-84

Notes

U.S. Processing Services Market 1989-1994



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MPRE90-76-Y6

Notes

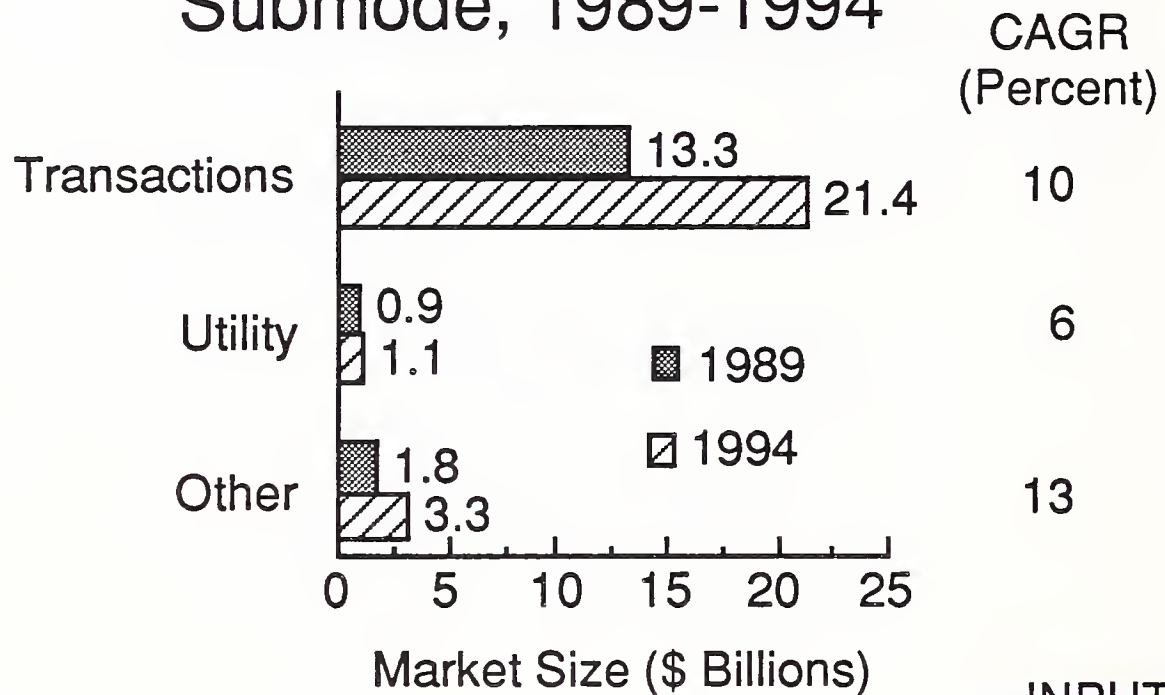
Processing Services

- Transaction processing
- Utility processing
- "Other" processing

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MPRE90-85-Y7

Notes

U.S. Processing Services Market by Submode, 1989-1994



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MPRE90-86-Y8

Notes

Processing Services Inhibitors

- Micro/mini/WS solutions
- Price/performance disadvantage
- Market entry costs
- Market maturity



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Notes

Processing Services Driving Forces

- Current user inertia
- Time critical solutions
- Outsourcing trends
- Innovation/specialization
- Disaster recovery



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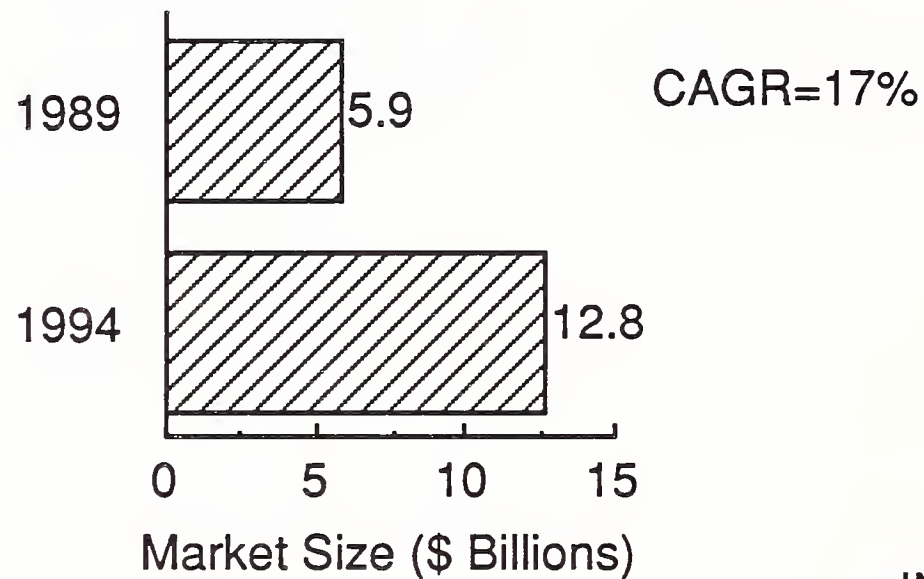
Notes

Systems Operations

INPUT

Notes

U.S. Systems Operations Market, 1989-1994



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MPRE90-76-Y9

Notes

“Old”

Facilities Management

- Focus on computer operations

“New”

Systems Operations

- Development, planning, control, operations

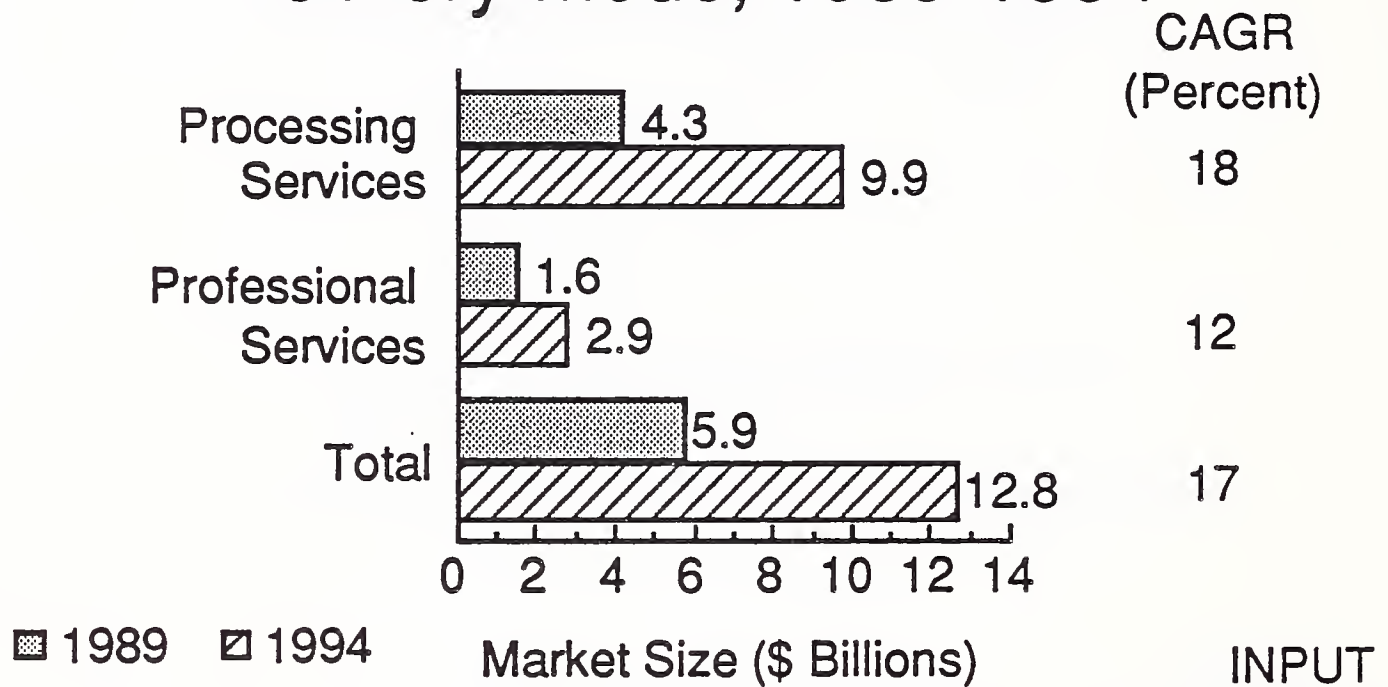
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Notes

SCON-DRW2-5

MPRE90-90

U.S. Systems Operations Market by Delivery Mode, 1989-1994



Notes

Systems Operations Characteristics

- Method of Operation
 - Remote
 - On-site
 - Distributed

INPUT

Notes

Systems Operations Characteristics

- Ownership of central systems
 - Vendor-owned
 - Customer-owned

INPUT

Notes

Systems Operations Characteristics

- Uniqueness of resource use
 - Single customer, dedicated resources
 - Multiple customers, shared resources

INPUT

Notes

Systems Operations Processing Services

- Fastest-growing segment of processing market
- Changing attitudes of IS executives
- Non-IS executive involvement
- Emerging systems vendors' strategies

INPUT

Notes

Trends in Systems Operations

- Network management contracts
- Development and operations in agreements
- Shared resources approach
- Mixed hardware offerings
- Vertical market focus

INPUT

Notes

SCON-DRW2-26

MPRE90-97

Systems Operations Driving Forces

- Increasing complexity of operations
- Scarcity and expense of required talents
- Costs and problems of systems upgrades
- Service level requirements
- Backup requirements

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Notes

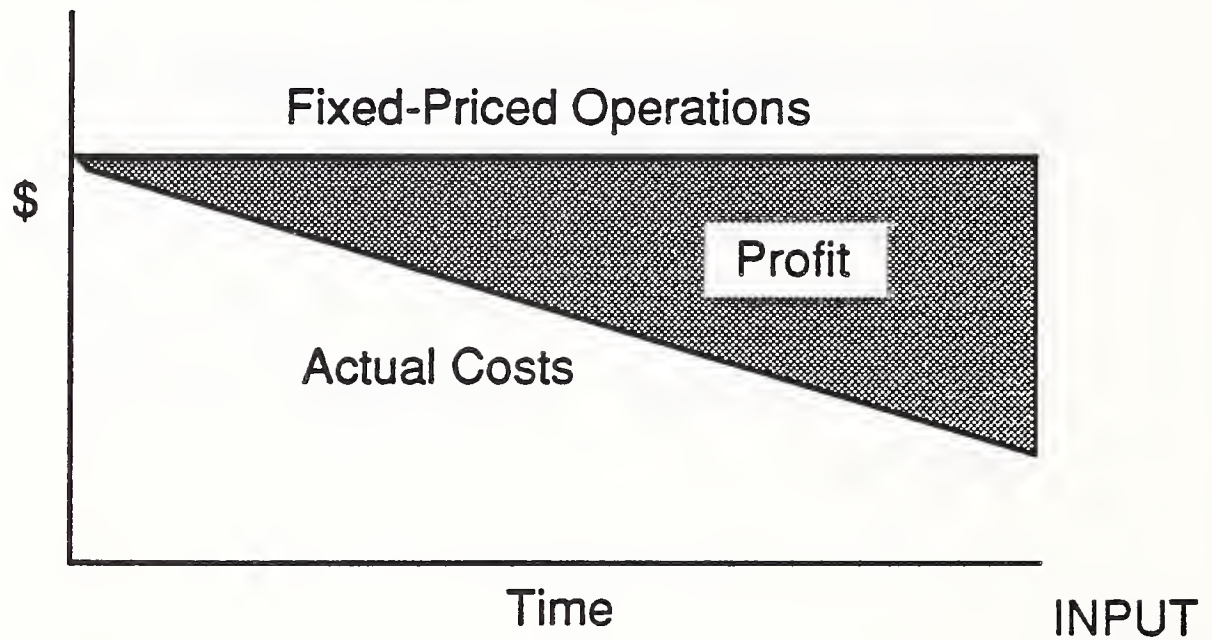
Systems Operations Driving Forces

- Systems integration creates opportunities
- Reduction of costs through sharing
 - People
 - Software
 - Computer systems
 - Networks

INPUT

Notes

Systems Operations Efficiency Yields Profits

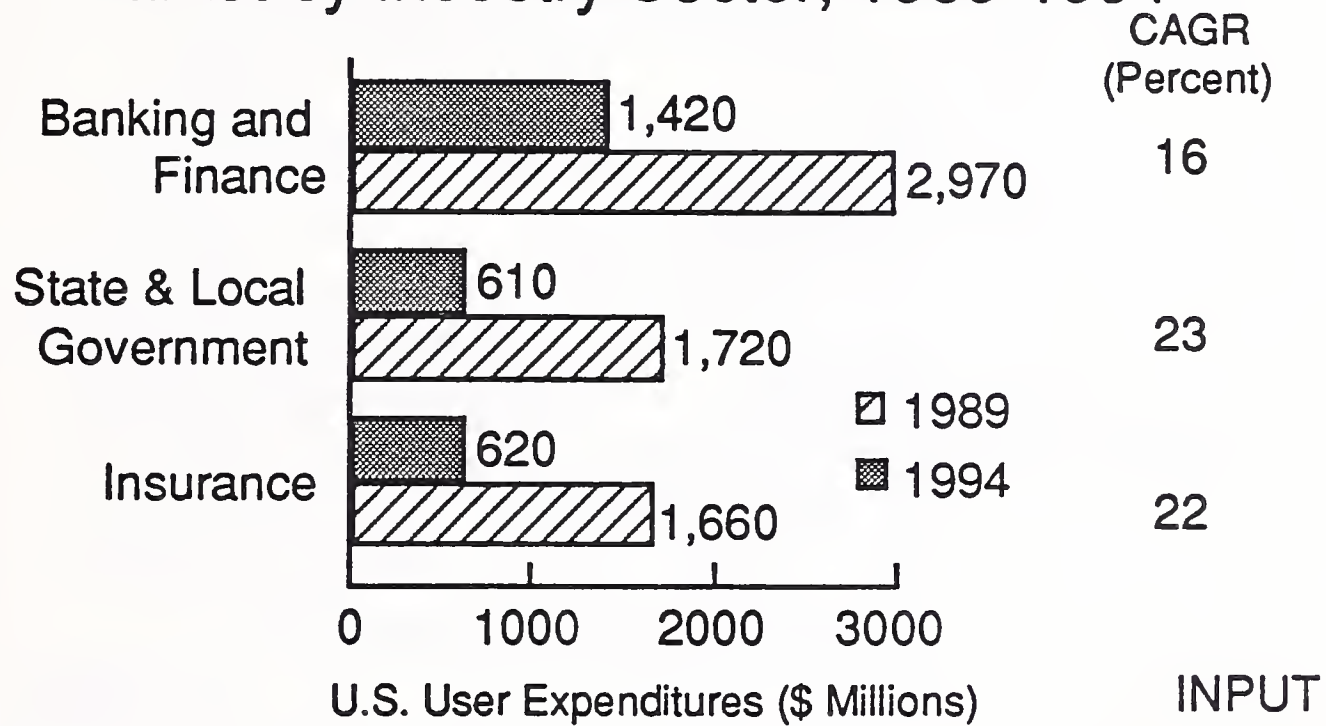


Notes

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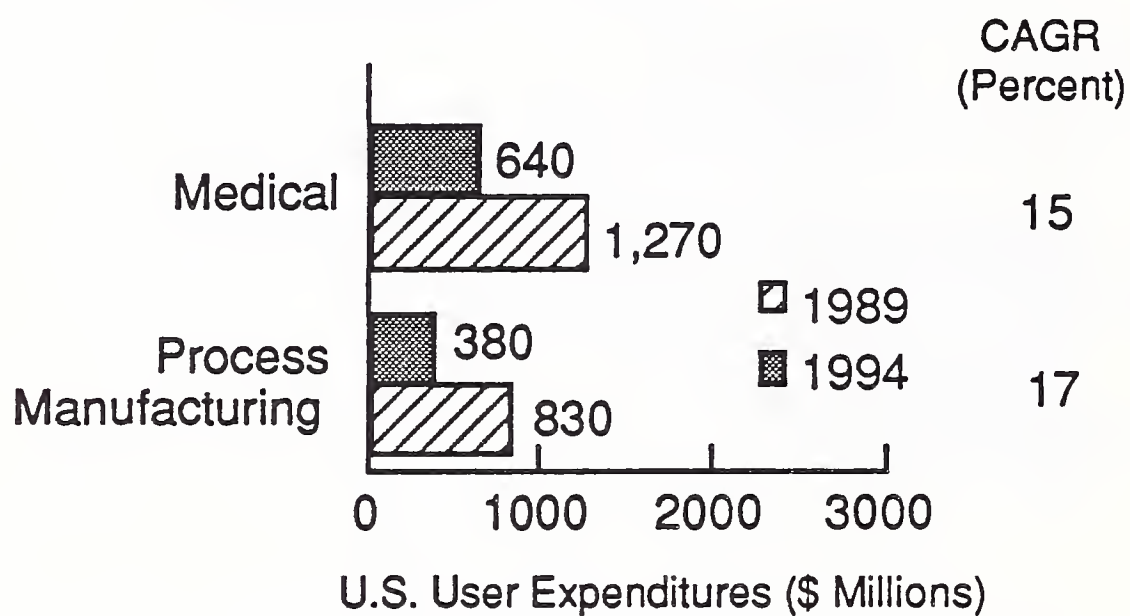
MPRE90-98

Processing Services Systems Operations Market by Industry Sector, 1989-1994



Notes

Processing Services Systems Operations Market by Industry Sector, 1989-1994



INPUT

Notes

Leading Systems Operations Vendors

Vendor	Market Share (Percent)
EDS	16 *
Computer Sciences	5
Shared Medical Systems	3
Boeing Computer Services	3
Systematics	3

*Non-GM

INPUT

Notes

SCON-DRW2-12

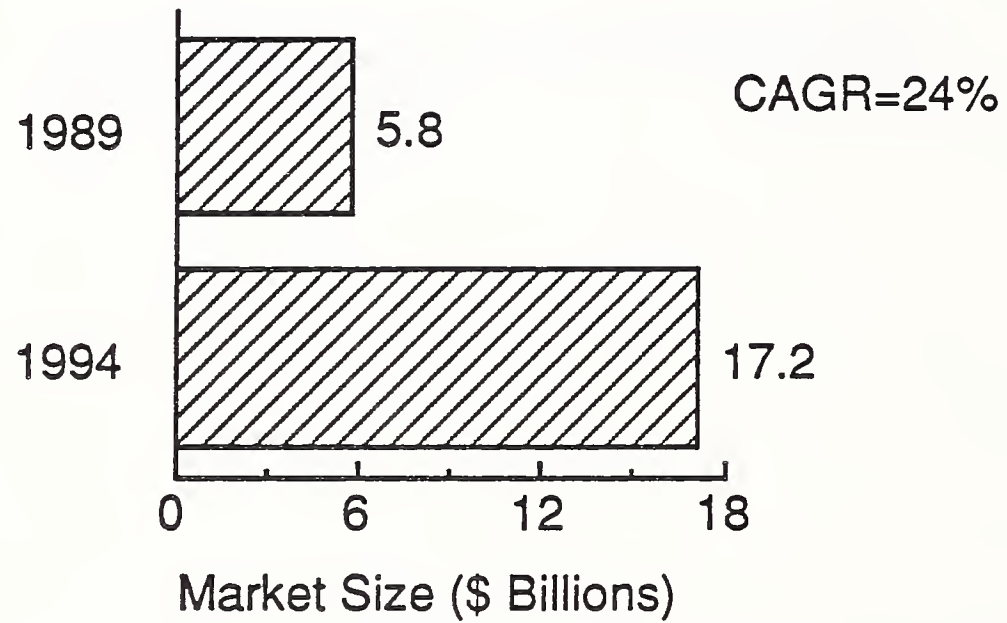
MPRE90-106

Systems Integration

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Notes

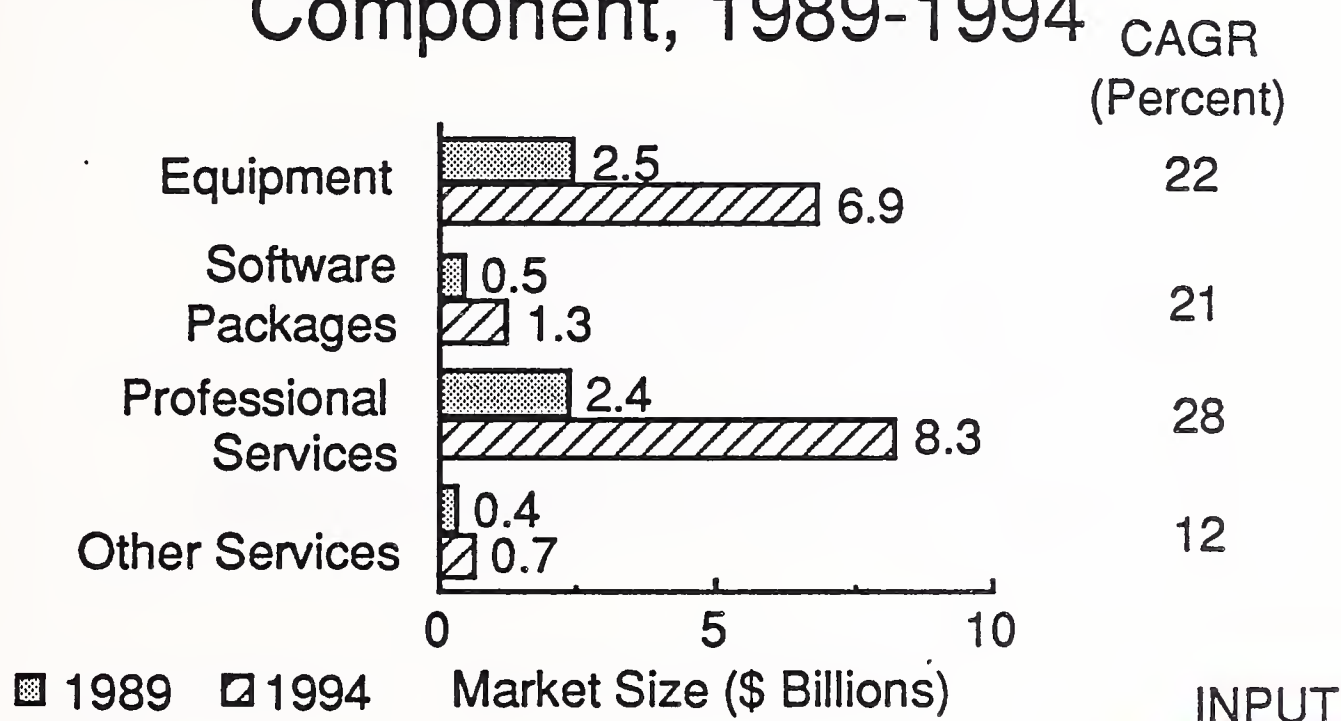
U.S. Systems Integration Market 1989-1994



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Notes

U.S. Systems Integration Market by Component, 1989-1994



Notes

SI Definition

- A business offering
- Complete solution to complex requirement for:
 - Information systems
 - Networking
 - Automation
- Custom selection and implementation of products and services

INPUT

Notes

Major Buyer Issues

- Core business focus
- Competitive demands
- Increasingly complex solutions

INPUT

Notes

Major Buyer Issues

- Users becoming buyers
- New technology application
- Unavailable skills

INPUT

Notes

Major Vendor Issues

- Consolidations and alliances
- Focus on repeatable solutions
 - Risk reduction
 - Productivity

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Notes

Major Vendor Issues

- Full service suppliers
 - "Business change" consulting
 - Systems operation
- Increasing competition
 - Skills
 - Clients

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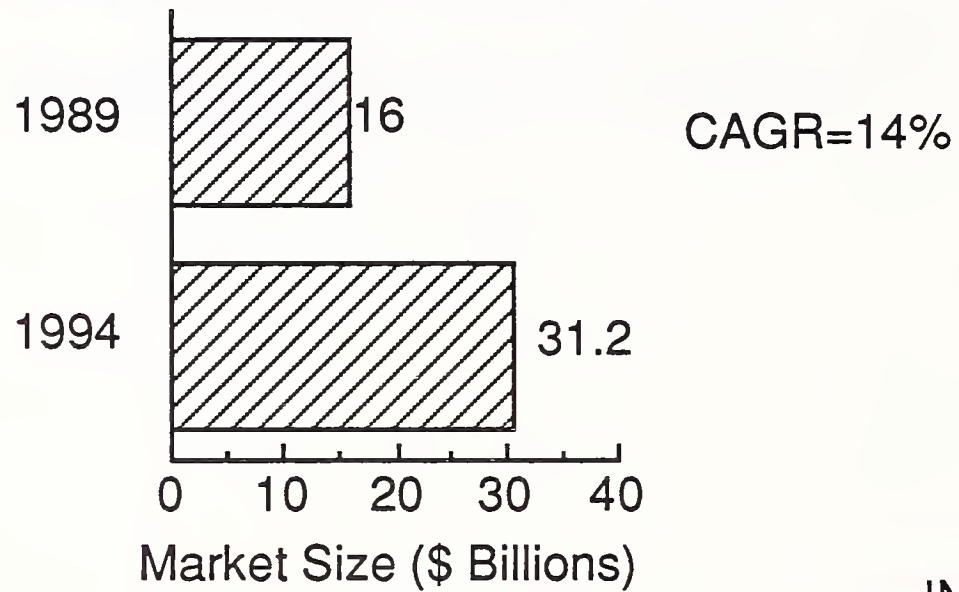
Notes

Professional Services

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Notes

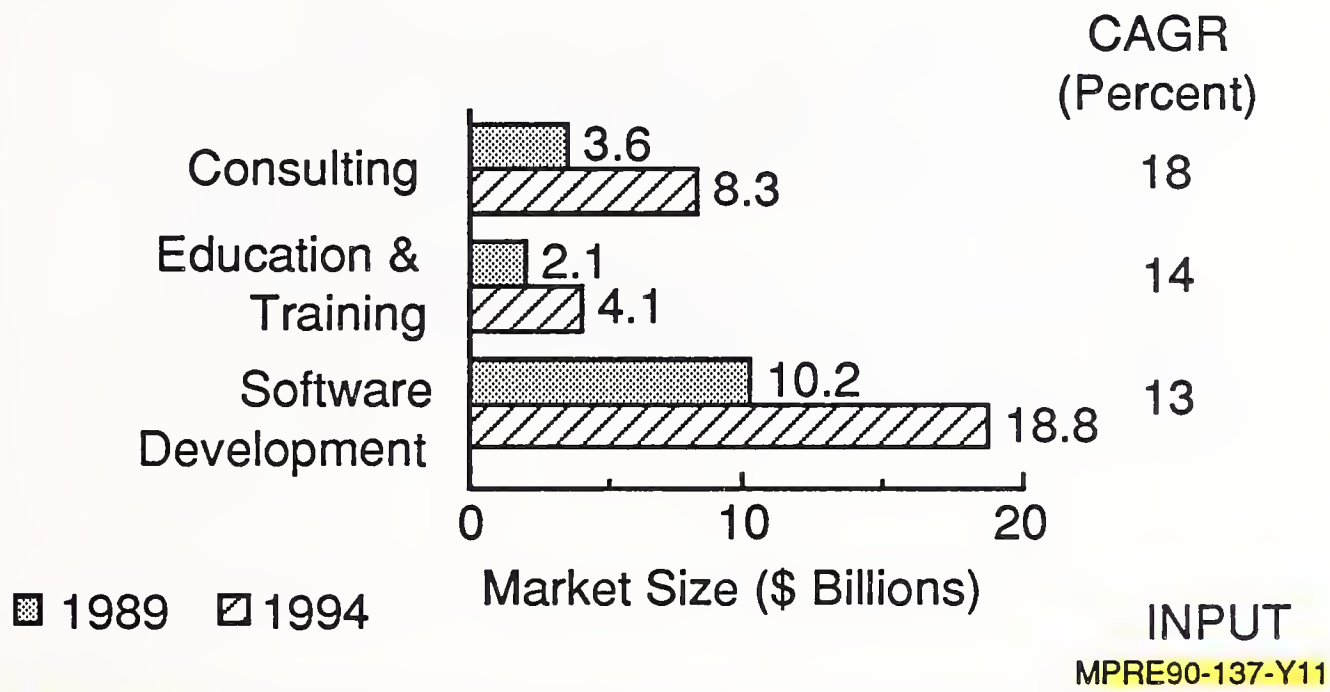
U.S. Professional Services Market, 1989-1994



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MPRE90-76-Y10

Notes

U.S. Professional Services Market by Submode, 1989-1994



Notes

Professional Services Major Trends

- Alliances between services/software firms
- Partnering with equipment suppliers
- Software product vendors expanding services
- Services provide vendor differentiation
- "Methodology" as marketing tool
- Multi-tiered market developing

INPUT

Notes

Professional Services Major Trends

- IS applications backlog not being reduced
- Continuing shortage of in-house skills creates demand
- Uncertainty creates demand

INPUT

Notes

Professional Services Market Inhibitors

- Lack of 'professional' status
- Lack of qualified personnel
- Investment required for internal education/training
- Unsuccessful projects
- Improved applications software products

INPUT

Notes

IBM Partners in Professional Services

Company	Activity
CTG	AD/Cycle
CAP Gemini America	AD/Cycle
G.E. Consulting	AD/Cycle
Computer Power Group	AD/Cycle
AMS	Marketing

INPUT

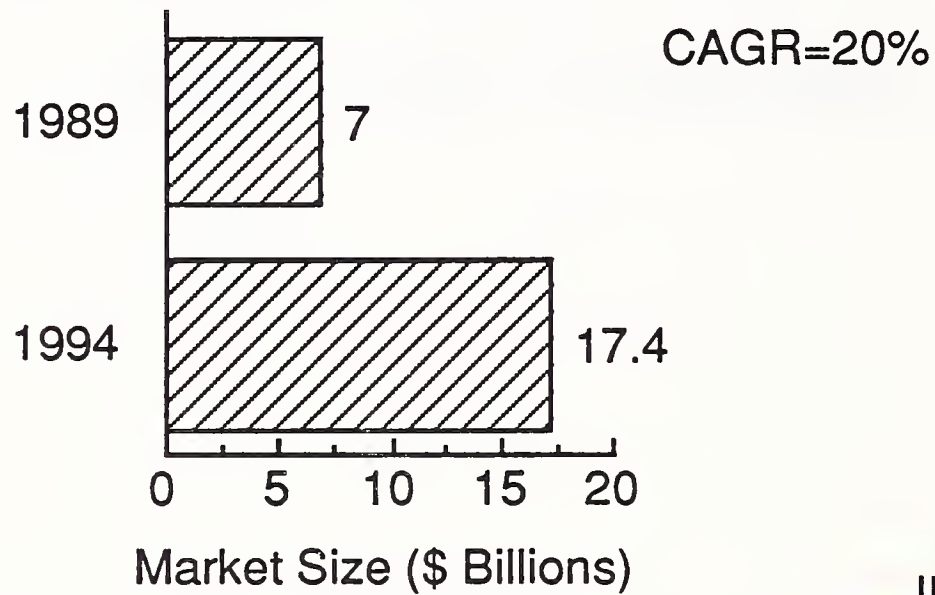
Notes

Network Services

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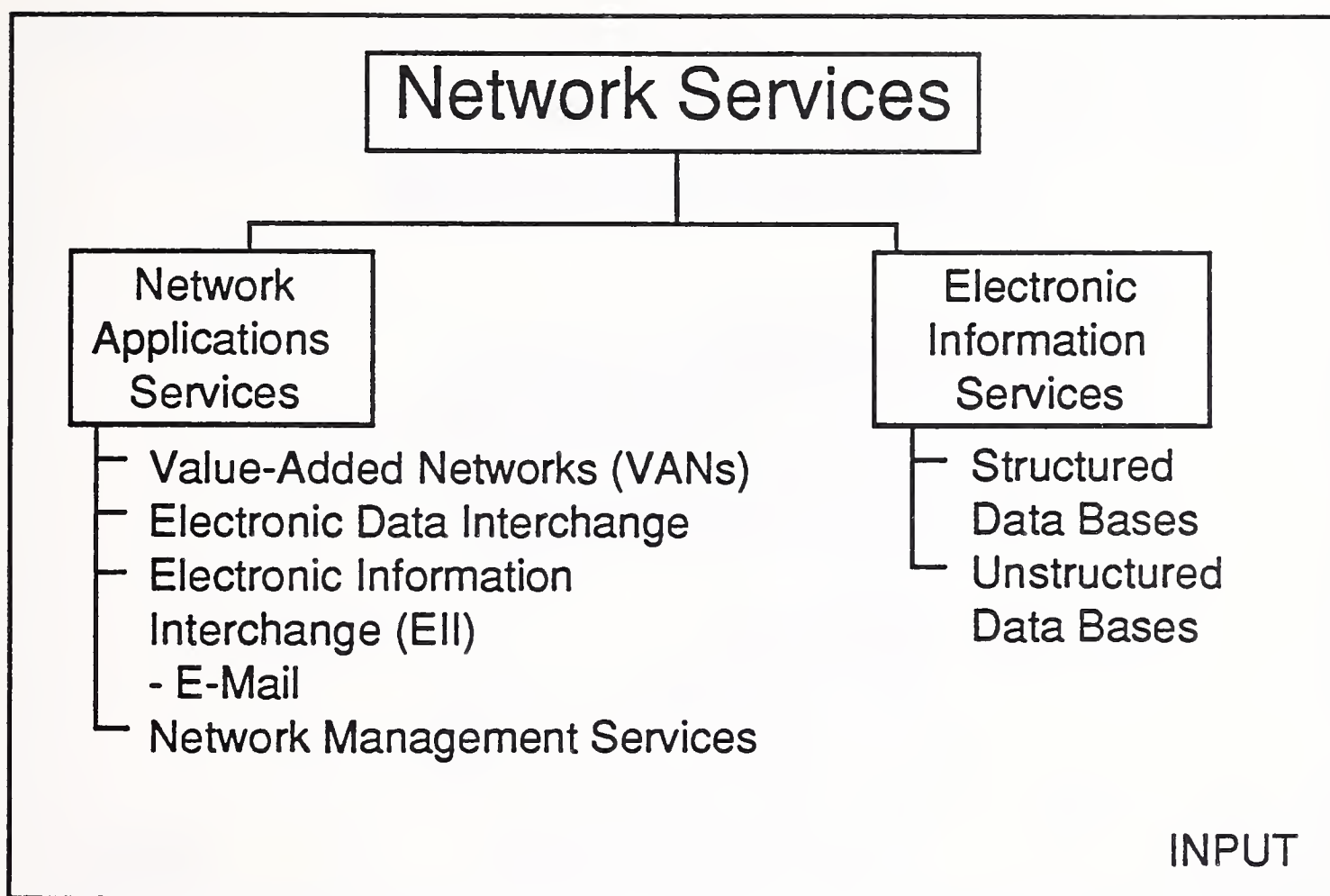
Notes

U.S. Network Services Market, 1989-1994



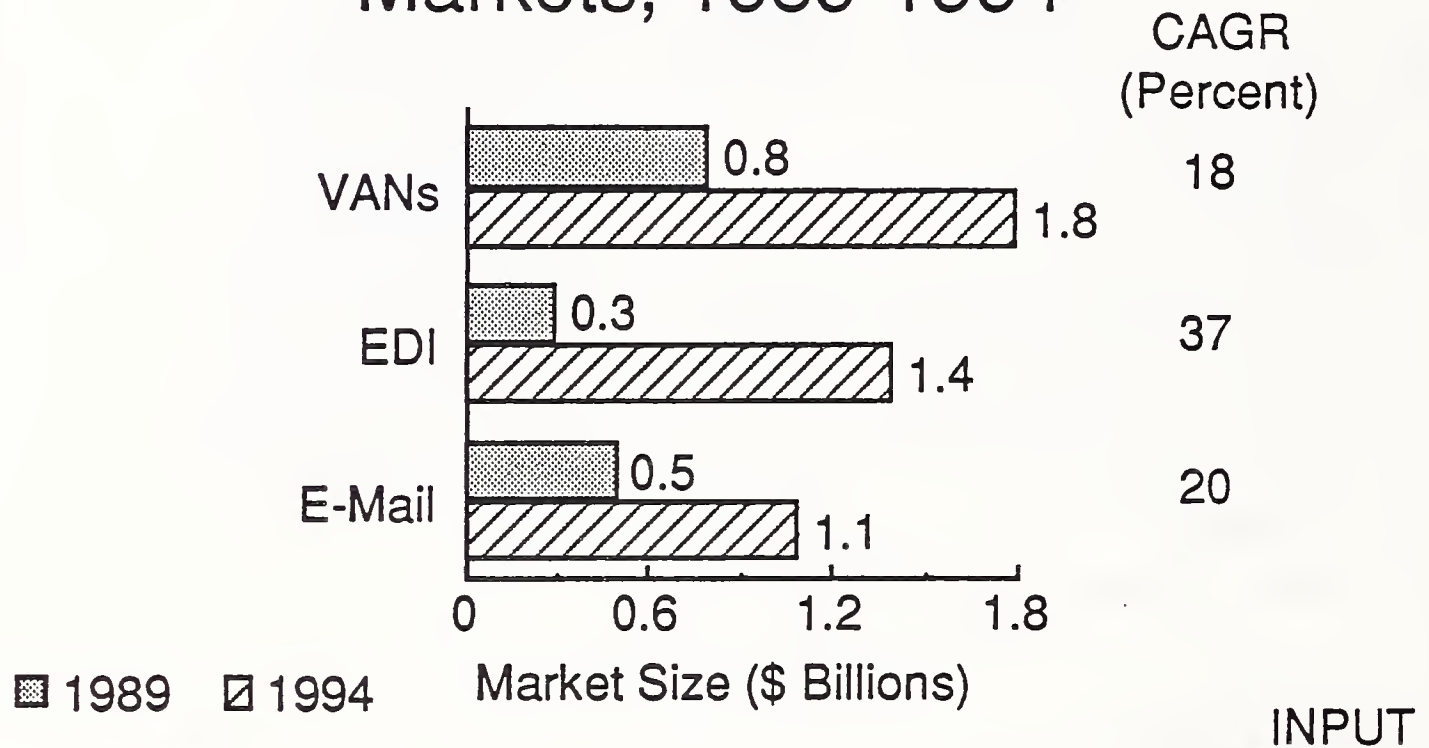
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Notes



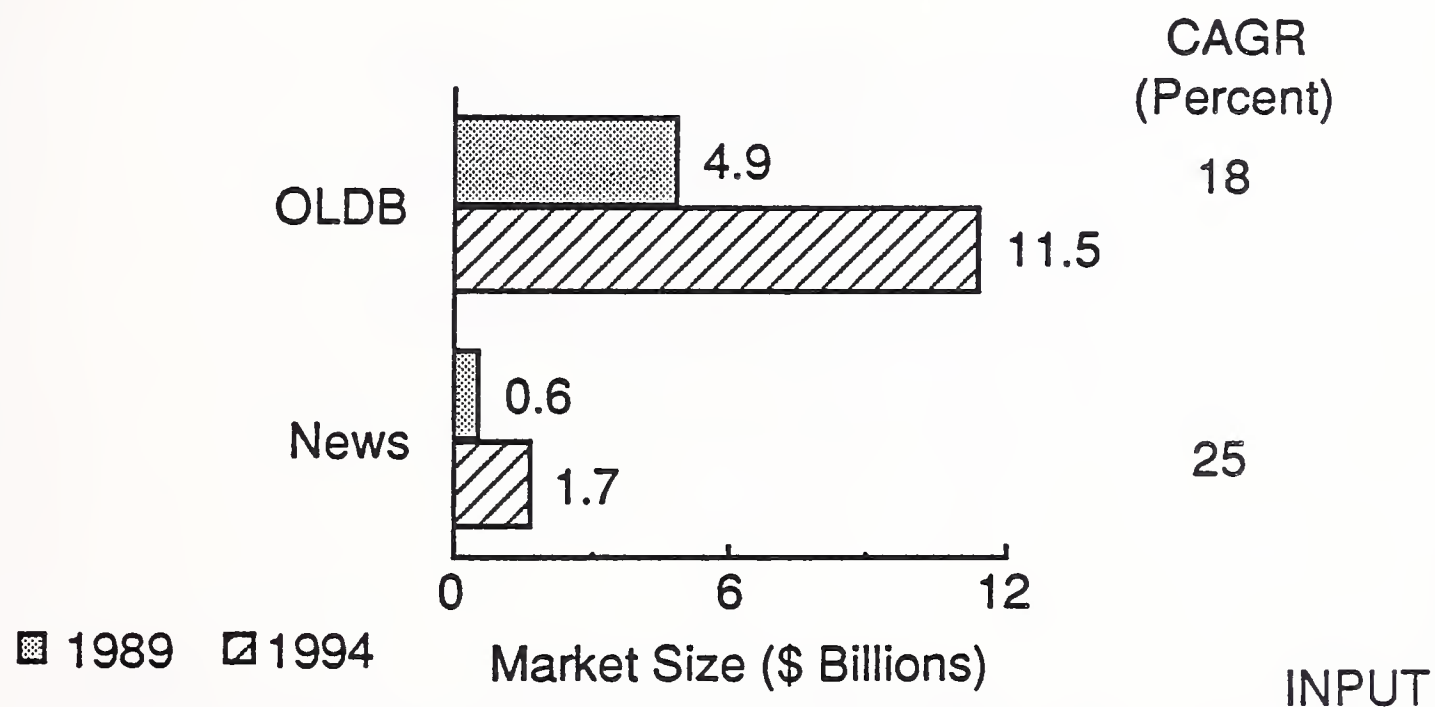
Notes

U.S. Network Applications Services Markets, 1989-1994



Notes

U.S. Electronic Information Services Markets, 1989-1994



Notes

Network/Electronic Information Services Market—Driving Forces

- Business need for rapidly available electronic information
- RBOC entry
- Network management services
- Voice information services
- Transaction "electronification"

INPUT

Notes

Network Services Markets

- RBOCs will be a factor
- EDI has leverage into interorganizational services
- Market growth remains strong

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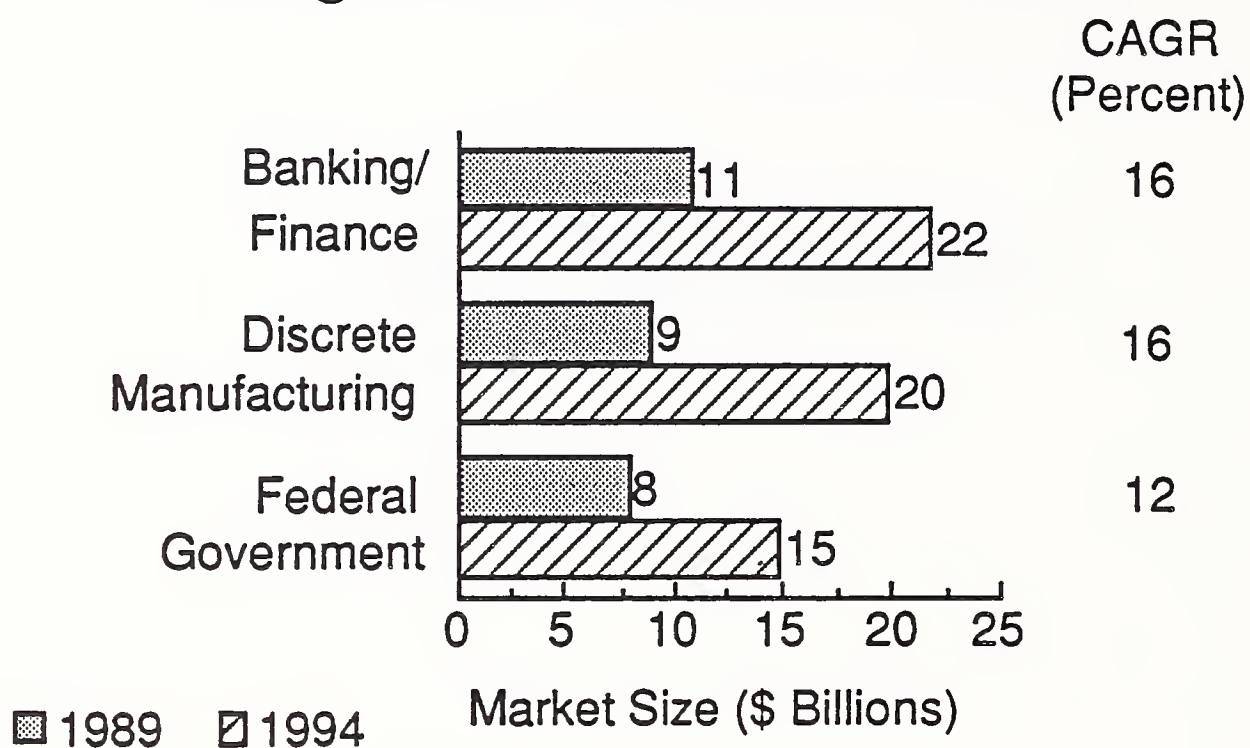
Notes

Vertical Markets

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Notes

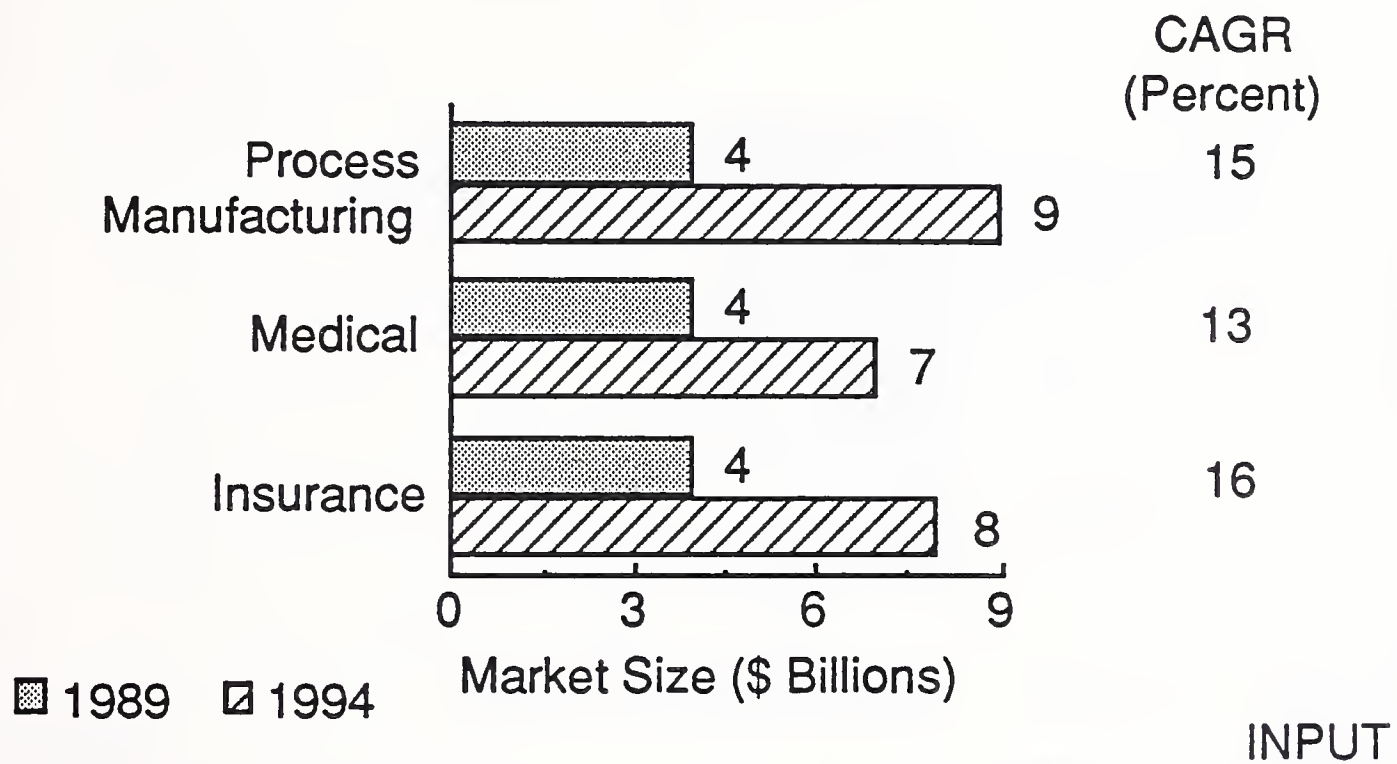
Largest IS Vertical Markets



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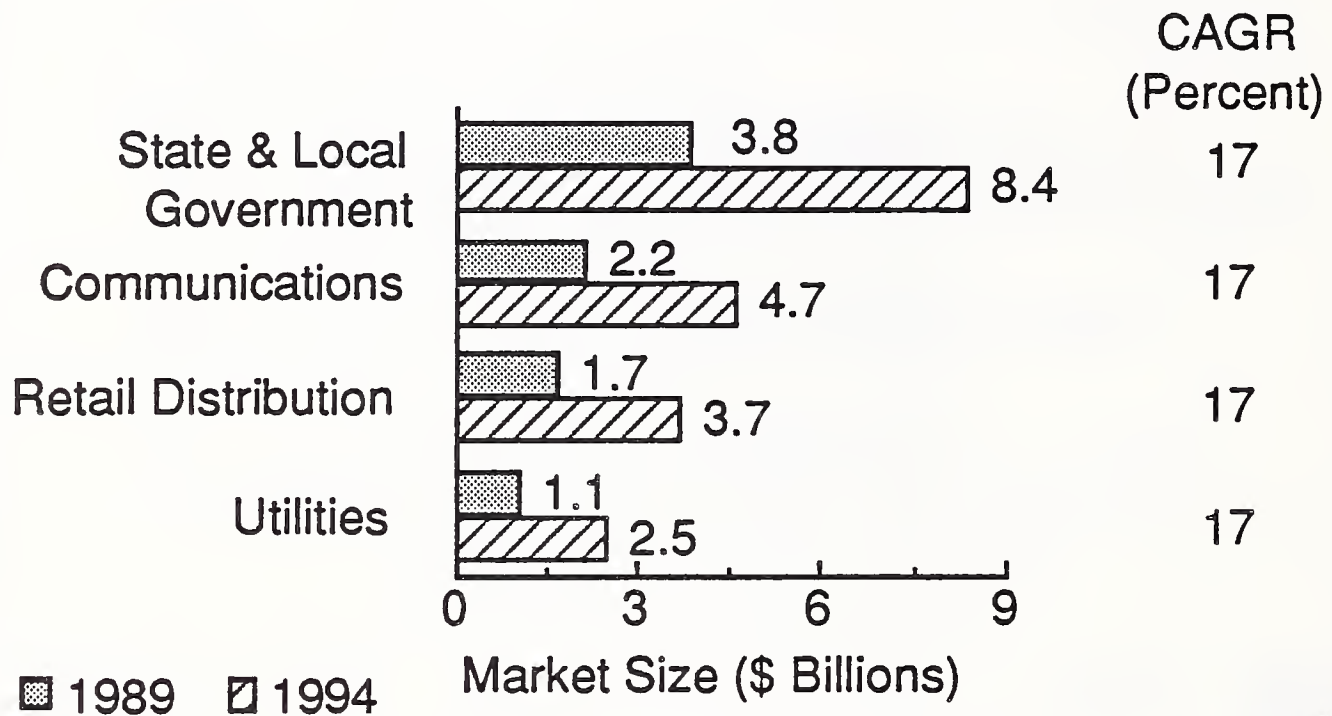
Notes

Largest IS Vertical Markets



Notes

Fast-Growing IS Vertical Markets



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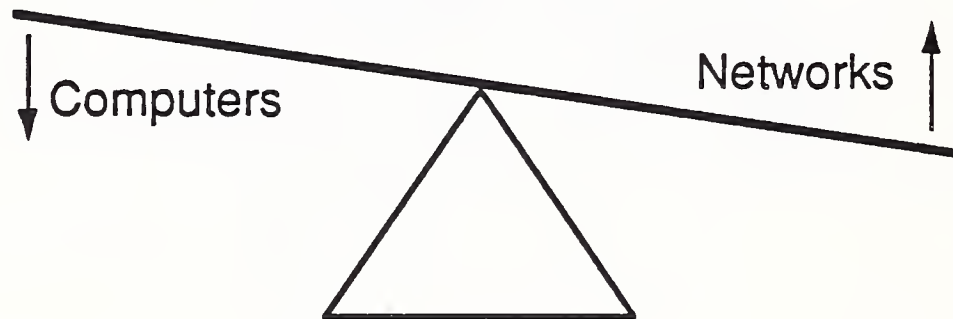
Notes

Major Trends for the Decade

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Notes

1990s Trend



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Notes

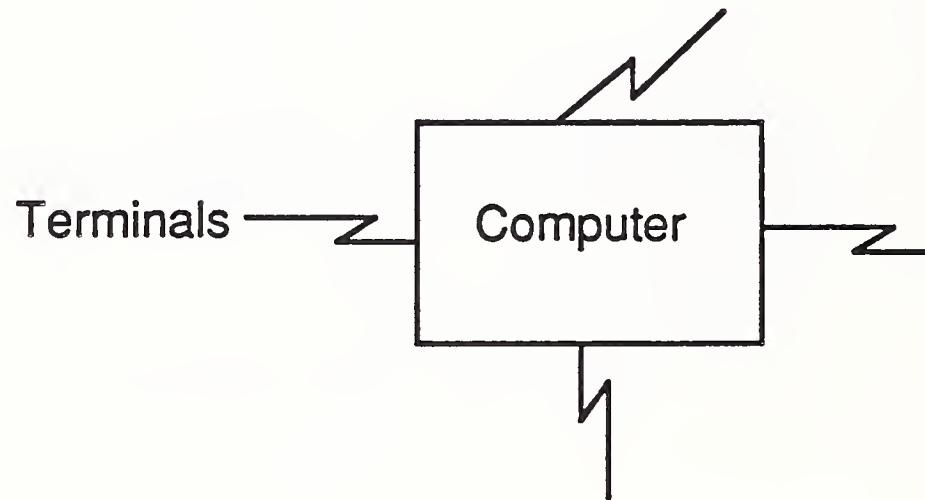
1990 Trend

- Network = Power
Consummable
Embedded storage, processing, software
- Computer = Device
Discrete replacement
Embedded communications link

INPUT

Notes

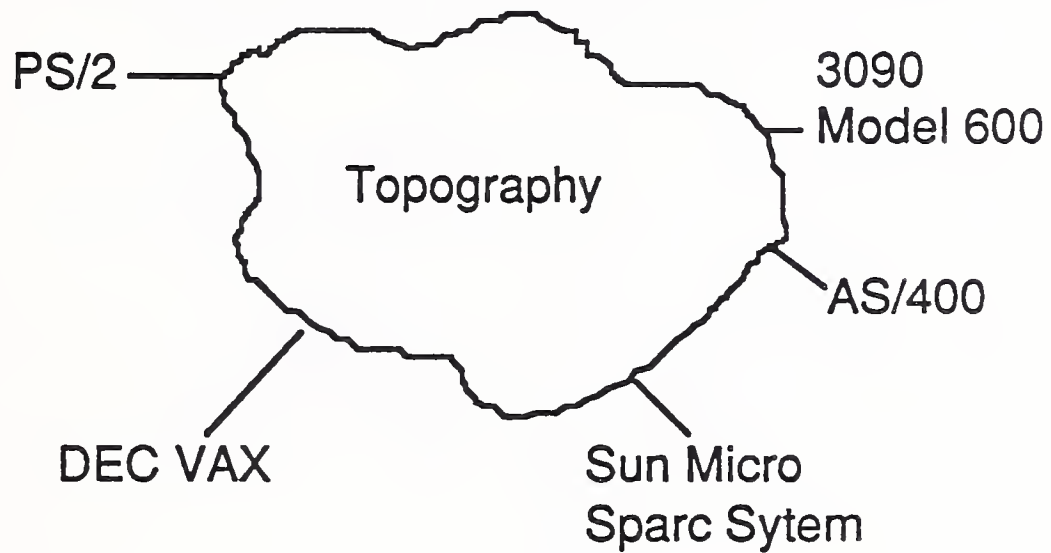
Network 1970



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Notes

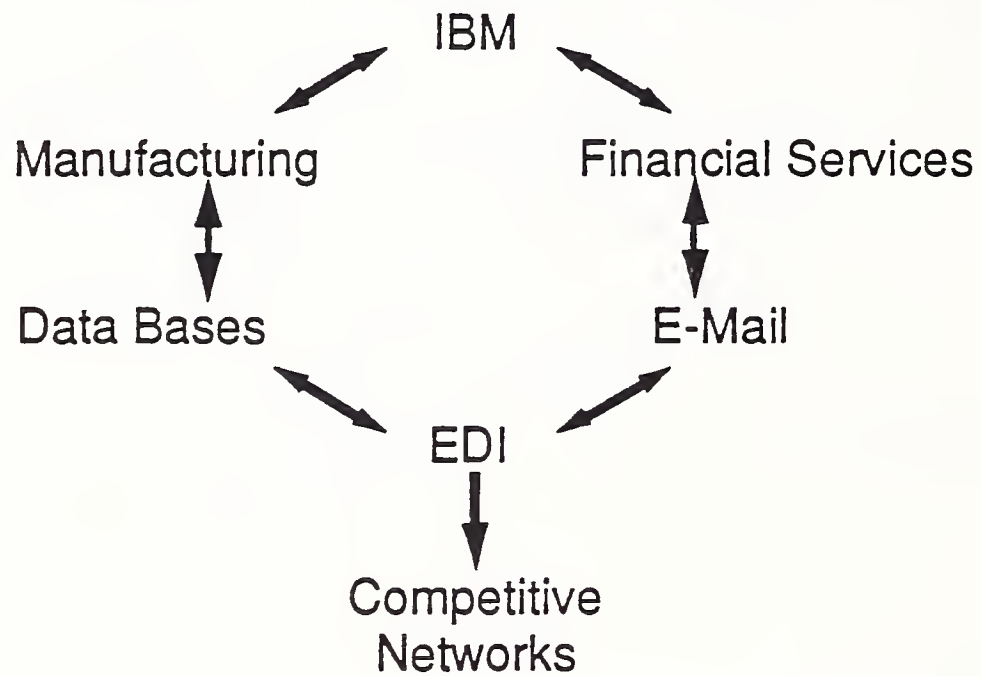
Network 1990



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Notes

Trends for the 1990s Interconnections Will Grow



INPUT

Notes

Trends Towards Integration Technology Changes

- Robust public networks
- Virtual network capability
- Enhanced value-added networks
- Increased PBX functionality
- Enhanced local-area networks

INPUT

Notes

Trends Towards Integration Technology Changes

- Intelligent multiplexers
- Relational data base systems
- Distributed processing
- PC/workstation growth

INPUT

Notes

Conclusions

INPUT

Notes

Conclusions

- Overall market remains vital
- Outsourcing to grow
- Opportunities will require targeted marketing and support
- Breadth of services/products enhances market position

INPUT

Notes

Conclusions

- Alliances/mergers necessary
- Customer requirements becoming more sophisticated
- Customers applying professional buying
- 'Federated' IS requires complex selling
- Selling process is key
 - Solutions-oriented
 - Professional

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Notes

Conclusions

- Shorter lifecycle calls for fast response
- People skills/retention are key
- Internationalism to increase
- Technology creates opportunities

INPUT

Notes

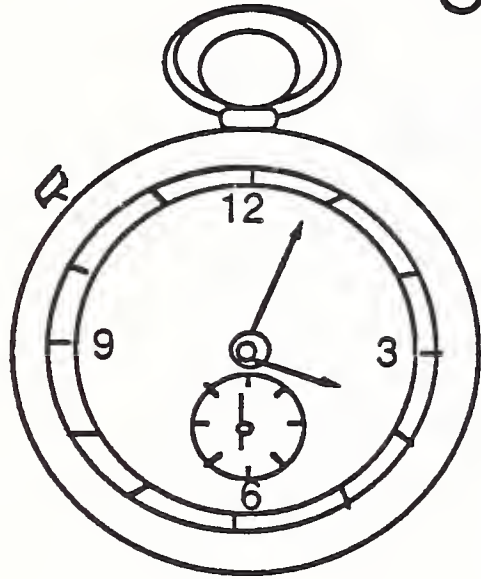
Opportunity for 1990s

- Attack in-house budgets
- Opportunity \$75-100 billion/year in U.S.

INPUT

Notes

Conclusions



"Time—
The next source of
competitive advantage"

- HBR July/August 1988

- Attack opportunities
- Adjust to the requirements

INPUT

Notes

About INPUT

INPUT provides planning information, analysis, and recommendations to managers and executives in the information processing industries. Through market research, technology forecasting, and competitive analysis, INPUT supports client management in making informed decisions.

Continuous-information advisory services, proprietary research/consulting, merger/acquisition assistance, and multiclient studies are provided to users and vendors of information systems and services (software, processing services, turnkey systems, systems integration, professional services, communications, systems/software maintenance and support).

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Formed as a privately held corporation in 1974, INPUT has become a leading international research and consulting firm. Clients include more than 100 of the world's largest and most technically advanced companies.

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